## AMENDMENTS TO THE CLAIMS

**This listing of claims will replace all prior versions and listings of claims in the application:**

Please amend the claims to read as follows:

1. (Original) A stream of non-soliton RZ pulses, characterized in that the phase difference between the end of one pulse and the beginning of the next pulse is in the range from $2\pi/3$ to $4\pi/3$.

2. (Original) The pulse stream of claim 1, characterized in that each pulse has a constant phase.

3. (Withdrawn) The pulse stream of claim 1, characterized in that the phase varies between the beginning of a pulse and the end of the pulse.

4. (Withdrawn) The pulse stream of claim 3, characterized in that the phase variation in a pulse is sinusoidal.

5. (Withdrawn) The pulse stream of claim 4, characterized in that the phase variation in a pulse is a squarewave.

6. (Original) The pulse stream of claim 1, characterized in that it is modulated.

7. (Original) A stream of non-soliton RZ pulses, characterized in that the phase difference between the end of a pulse and the beginning of the immediately following pulse is in the range from $2\pi/3$ to $4\pi/3$.

8. (Original) The pulse stream of claim 7, characterized in that each pulse has a constant phase.

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9. (Original) The pulse stream of claim 8, characterized in that the difference between the phase of an even-numbered pulse and the phase of an odd-numbered pulse is in the range from $2\pi/3$ to $4\pi/3$.

10. (Currently Amended) A method of transmitting, said method including the steps of generating a stream of pulses according to claim 2, including sending the pulses and reversing the phase of each new pulse, and transmitting said stream of pulses.

11. (Withdrawn) A method of transmitting, said method including the steps of generating a pulse stream according to claim 3 of transmitting a stream of pulses, including sending the pulses and phase modulating each pulse, and transmitting said stream of pulses.

12. (Withdrawn) A method of transmitting, said method including the steps of generating a pulse stream according to claim 7 of transmitting a stream of pulses, including sendinggenerating a stream of pulses at half the pulse frequency with a first phase, sendinggenerating a stream of pulses at half the pulse frequency with a second phase, and transmitting the two pulse streams with the two pulse streams interleaved at half the pulse frequency.

13 (New) A method of transmitting information, said method comprising the steps of generating a stream of non-soliton RZ pulses wherein a phase difference between the end of one pulse and the beginning of the next pulse is in the range from $2\pi/3$ to $4\pi/3$, and transmitting said stream of pulses.

14. (New) The method of claim 13, wherein each pulse has a constant phase.

15. (New) The method of claim 13, wherein the phase varies between the beginning of a pulse and the end of the pulse.

16. (New) The method of claim 15, wherein the phase variation in a pulse is sinusoidal.

17. (New) The method of claim 16, wherein the phase variation in a pulse is a squarewave.

18. (New) The method of claim 13, wherein said pulse stream is modulated.

19. (New) The method of claim 14, characterized in that the difference between the phase of an even-numbered pulse and the phase of an odd-numbered pulse is in the range from $2\pi/3$ to $4\pi/3$.

20. (New) The method of claim 14, wherein said generating step includes the step of reversing the phase of each new pulse.

21. (New) The method of claim 15, wherein said generating step includes the step of phase modulating each pulse.

22. (New) The method of claim 13, wherein said generating step comprises the steps of generating a stream of pulses at half the pulse frequency with a first phase, generating a stream of pulses at half the pulse frequency with a second phase, and interleaving the two streams of pulses at half the pulse frequency.

23. (New) A transmission medium carrying a stream of non-soliton RZ pulses according to claim 1.